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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,933	07/29/2003	Anandan Palani	IN01481KC	7512	
24265 SCHERING-P	7590 06/14/2007 LOUGH CORPORATION		EXAMINER		
PATENT DEPARTMENT (K-6-1, 1990)			CHANG,	CHANG, CELIA C	
	PING HILL ROAD H, NJ 07033-0530		ART UNIT	ART UNIT PAPER NUMBER	
			1625		
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			MAIL DATE	DELIVERY MODE	
			06/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1) ⊠ Responsive to communication(s) filed on <u>Q4 April 2007.</u> 2a		Application No.	Applicant(s)					
Celia Chang  ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Charlestone Change		10/628,933	PALANI ET AL.					
Period for Ropty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Estancians of airm may be waitable under the provided under the pro	Office Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extractions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a range be finish lifed.  - Extractions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a range be finish lifed.  - If the provision of creating the provision of 37 CFR 1.136(a). In no event, however, may a range be finish lifed.  - Failure to reply within the set or extended period for reply will, by attachs, cause the application to become ARANDONED (50 U.S. 5 133). Any ready rounded by the Office to the three herolishs after the mailing date of this communication, even if finish lifed, may reduce any married plants term beginners. Set 97 CFR 1.136(a).  - Failure term beginners. Set 97 CFR 1.136(b).  - Status  1)  Responsive to communication(s) filled on 04 April 2007.  - Za)  This action is FINAL.  - 2b)  This action is non-final.  - Share this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 21-26 is/are pending in the application.  - 4a) Of the above claim(s) is/are withdrawn from consideration.  - Claim(s) is/are allowed.  - Claim(s) 21-28 is/are rejected.  - 7  Claim(s) 22-28 is/are rejected.  - 7  Claim(s) 22-28 is/are objected to.  - Claim(s) are subject to restriction and/or election requirement.  - Application Papers  9)  The specification is objected to by the Examiner.  - 10  The drawing(s) filed on is/are: a) accepted or b) objected to. by the Examiner.  - Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.35(a).  - Replacement drawing sheet(s) including the correction is required if the drawing(s) by objected to.		Celia Chang	1625					
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Elanations of time may be available under the provisions of 37 CFR 1.13(b). In no event, howers, may a reply be timely filed after SIX (6) MCNTHS from the mailing date of this communication.  Fallub to incry within the set or central equation from you. It is also provided the set of the communication of the communicat								
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## **DETAILED ACTION**

1. Amendment and response filed by applicants dated April 4, 2007 have been entered and considered carefully.

Claims 1-20, 27-40 have been canceled.

Claims 21-26 are pending.

2. The rejection of claims 21, 25-28 under 35 USC 112 second paragraph is maintained for claim 21 with additional rejection as explained below, but dropped for claims 25-28 in view of the amendment.

The explanation about ketone linkage is not persuasive. Linkage via a ketone group, which is a bivalent moiety, is not always equivalent to an alkyl/aryl-carbonyl, i.e. see Morrison and Boyd attached. It is unclear what does this bonding arrangement should be since there is no example for this linkage, and pages 35-39 process of making does not support the described "ketone" bondage.

An oversight was observed and hereby rejected. In claim 21, R1 is M-R4 and R4 is defined being 1-3  $-(C_1-C_6)$ alkyl- $N(R^{21})$ SO<sub>2</sub>R<sup>22</sup>. Later in the claims M was defined to be an "aryl *optionally* substituted with R4" wherein said aryl is phenyl". The claimed scope is ambiguous and indefinite because the definitions are self conflicting. Since M-R4 is the moiety, and R4 can not be hydrogen, M cannot be "optionally" substituted but must always be substituted by at least one R4.

- 3. The rejection of claim 21 under 35 USC 112 first paragraph is dropped in view of the deletion of the solvates.
- 4. The provisional rejection of claims 21-30 under the judicially created doctrine of obviousness type double patenting is maintained for claims 21, 25-26.

Please note that the  $-(C_1-C_6)$ alkyl linker of R4 inclusive of C4 of the copending claims. The replacement of two of the methylene units with an bioisosteric structure is conventional modification suggested by the prior art for maintaining bioactivity. No where in the claim or

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specification that the four carbon linker should not be of choice. Therefore, a case of prima facie obviousness has been established based on conventional bioisosteric modification. If applicants' argument is drawn to that all the species of the instant application are two carbon chain alkylene, then such limitation can only be found in claims 22-24.

- 5. Claims 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celia Chang whose telephone number is 571-272-0679. The examiner can normally be reached on Monday through Thursday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie, Ph. D., can be reached on 571-272-0670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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OACS/Chang Jun 7, 2007

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